FIG. 1

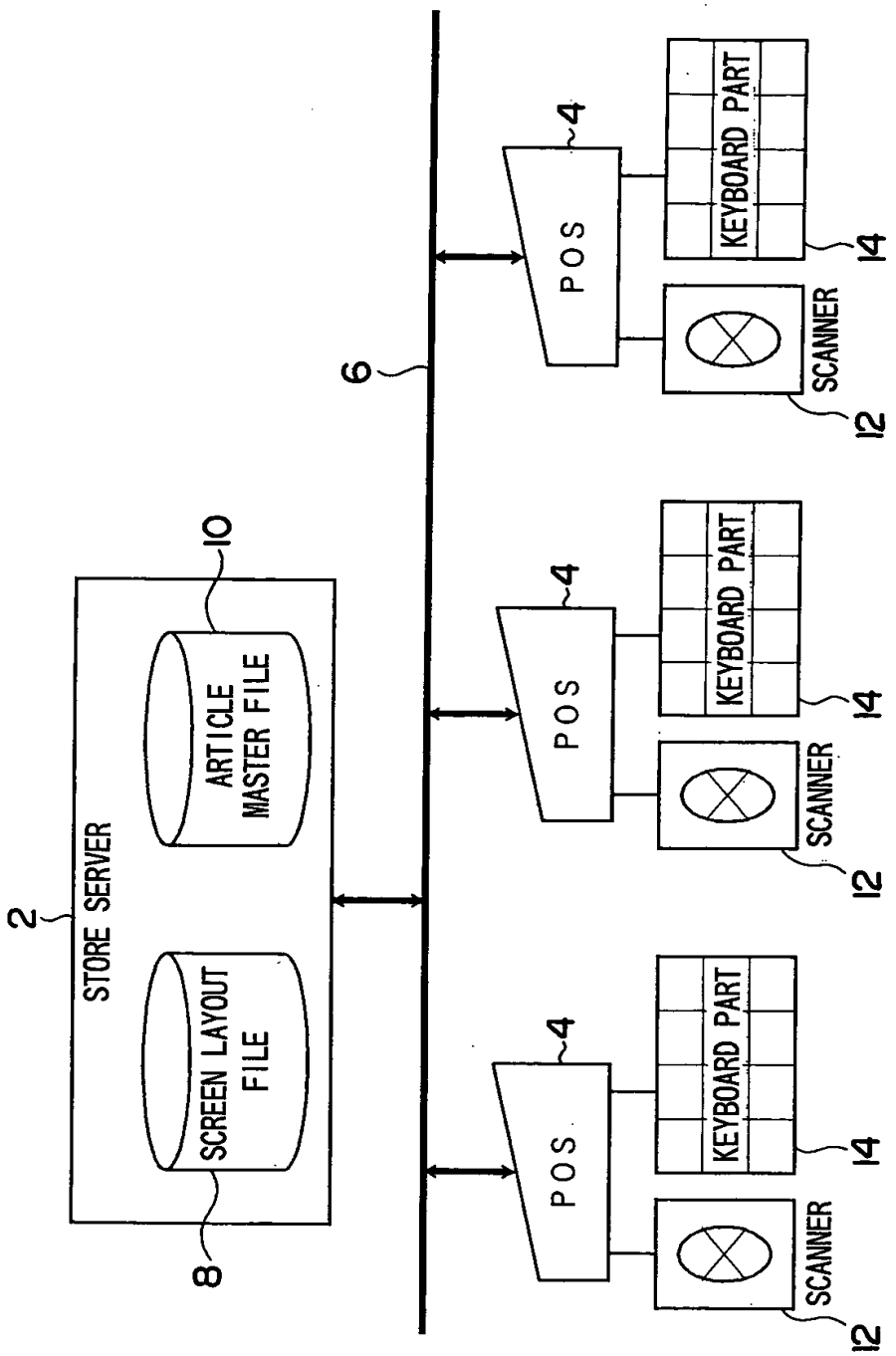

STORE SERVER
2
ARTICLE MASTER FILE
10
SCREEN LAYOUT FILE
8
6
POS
4
KEYBOARD PART
14
SCANNER
12

FIG. 2

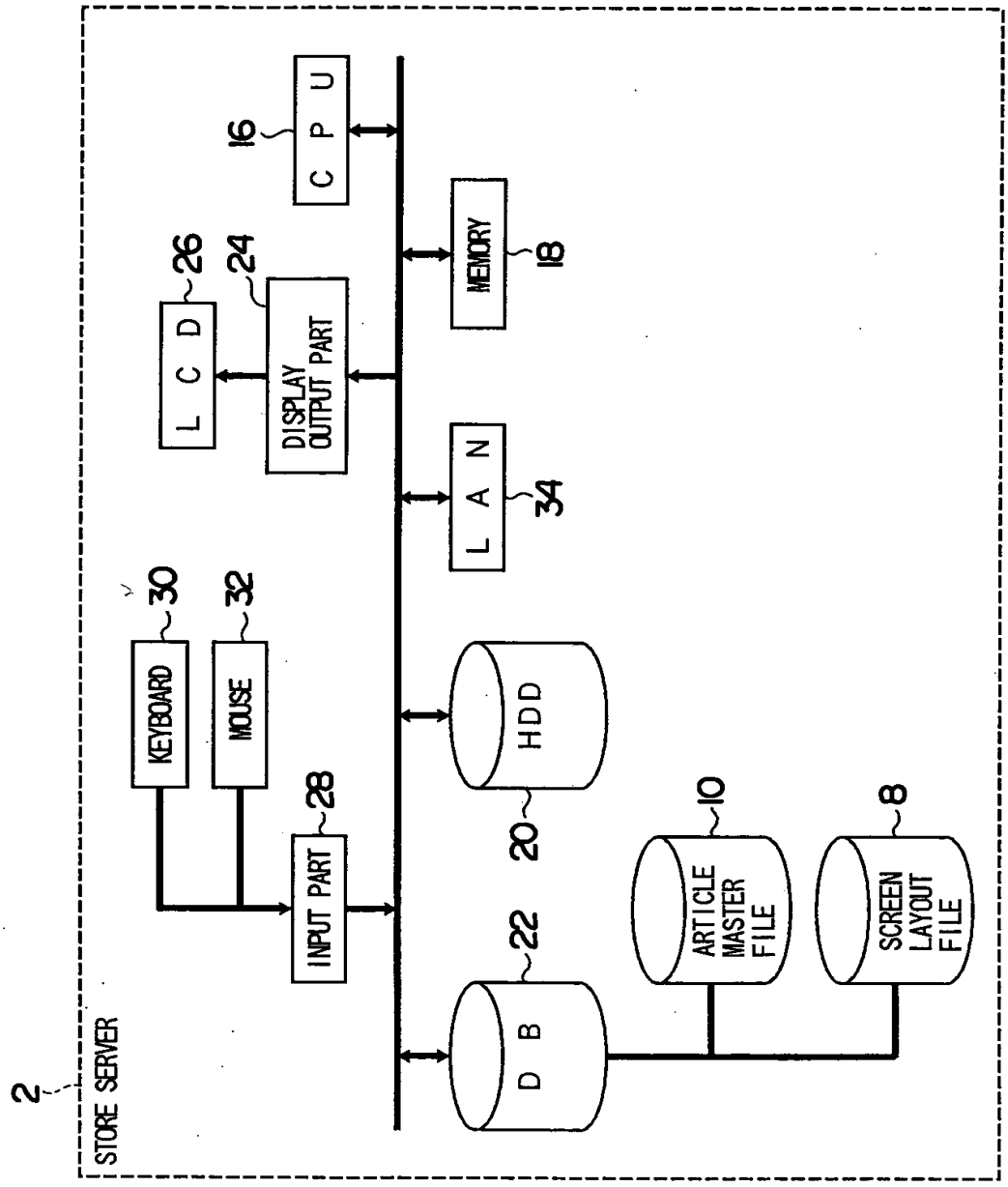

2
STORE SERVER
KEYBOARD
30
MOUSE
32
INPUT PART
28
D B
22
HDD
20
ARTICLE MASTER FILE
10
SCREEN LAYOUT FILE
8
L A N
34
L C D
26
DISPLAY OUTPUT PART
24
MEMORY
18
C P U
16

FIG. 3

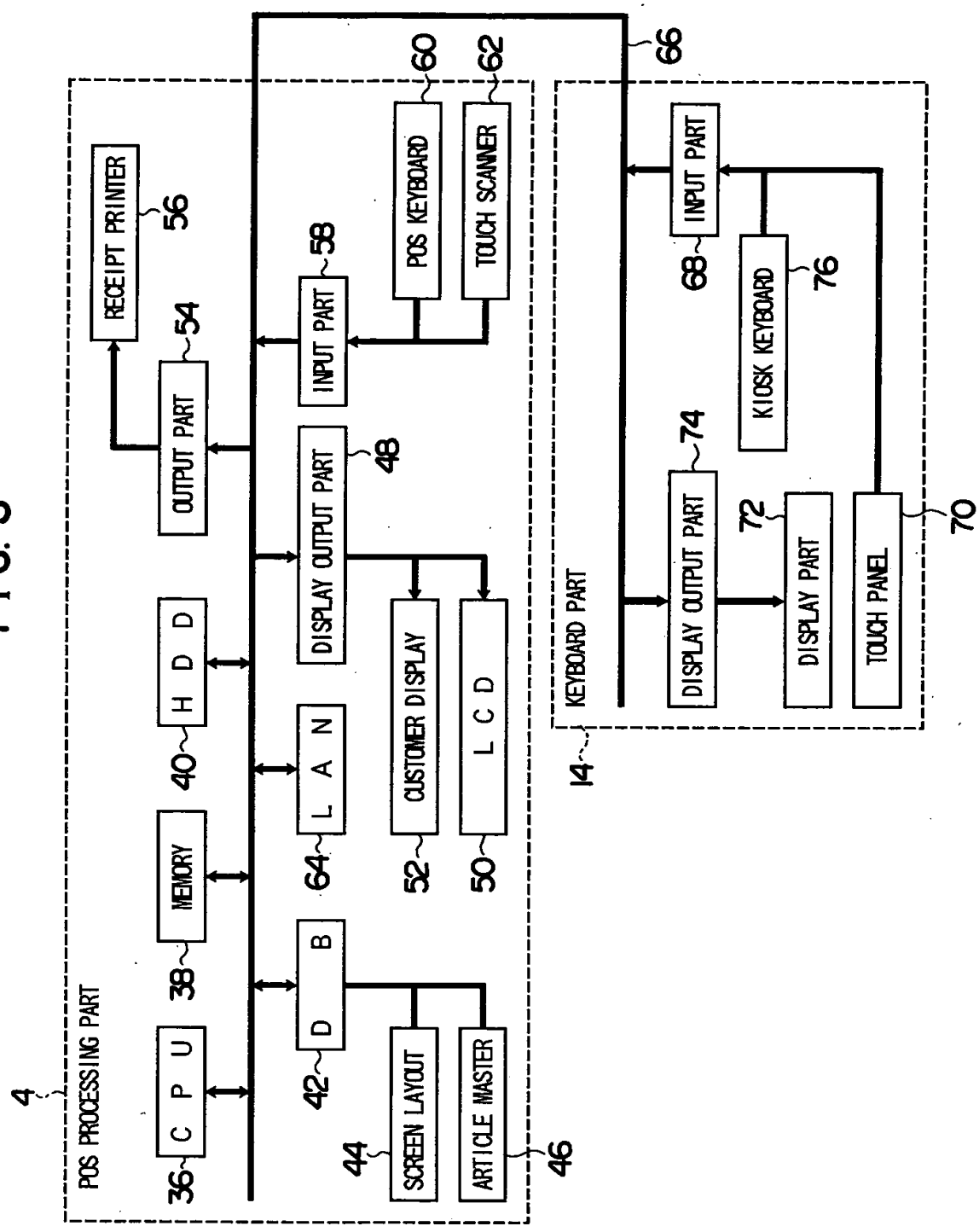

4
POS PROCESSING PART
C P U
36
MEMORY
38
H D D
40
D B
42
L A N
64
SCREEN LAYOUT
44
CUSTOMER DISPLAY
52
ARTICLE MASTER
46
L C D
50
DISPLAY OUTPUT PART
48
OUTPUT PART
54
RECEIPT PRINTER
56
INPUT PART
58
POS KEYBOARD
60
TOUCH SCANNER
62
66
14
KEYBOARD PART
DISPLAY OUTPUT PART
74
DISPLAY PART
72
TOUCH PANEL
70
INPUT PART
68
KIOSK KEYBOARD
76

FIG. 4A

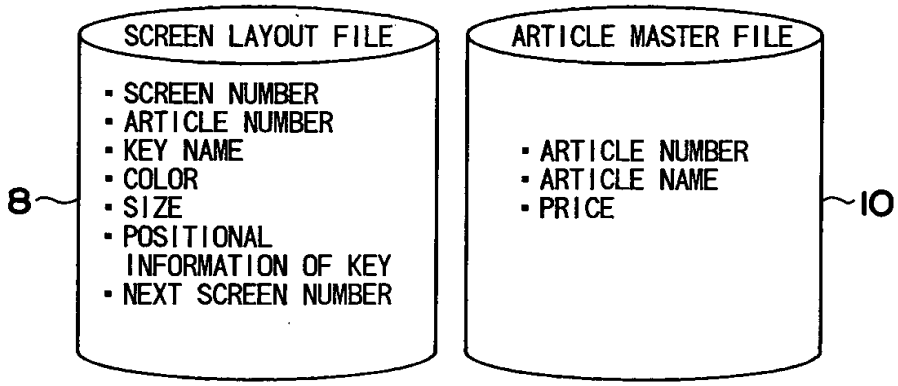


FIG. 4B

SCREEN NUMBER	ARTICLE NUMBER	KEY NAME	COLOR	SIZE	POSITION OF KEY	NEXT SCREEN NUMBER
1000		MAIN ITEM OF ARTICLE	GRAY	1	01, 01	1000
1000		LEAF VEGETABLES	BLUE	1	01, 02	2200
1000		OTHER VEGETABLES	YELLOW	1	01, 03	2300
1000		FRUIT	PINK	1	01, 04	2400
・・・・	・・・・・	・・・・・	・・・	・・・	・・・・・	・・・・・・
1000	12345	TSUGARU APPLE	PINK	1	02, 01	1000
・・・・	・・・・・	・・・・・	・・・	・・・	・・・・・	・・・・・・
2400		MAIN ITEM OF ARTICLE	GRAY	1	01, 01	1000
2400	・・・・・	・・・・・	・・・	・・・	・・・・・	・・・・・・
2400	12345	TSUGARU APPLE	GRAY	1	02, 01	1000
・・・・	・・・・・	・・・・・	・・・	・・・	・・・・・	・・・・・・
2400	45678	MANGO	PINK	1	03, 05	1000
・・・・	・・・・・	・・・・・	・・・	・・・	・・・・・	・・・・・・

FIG. 5

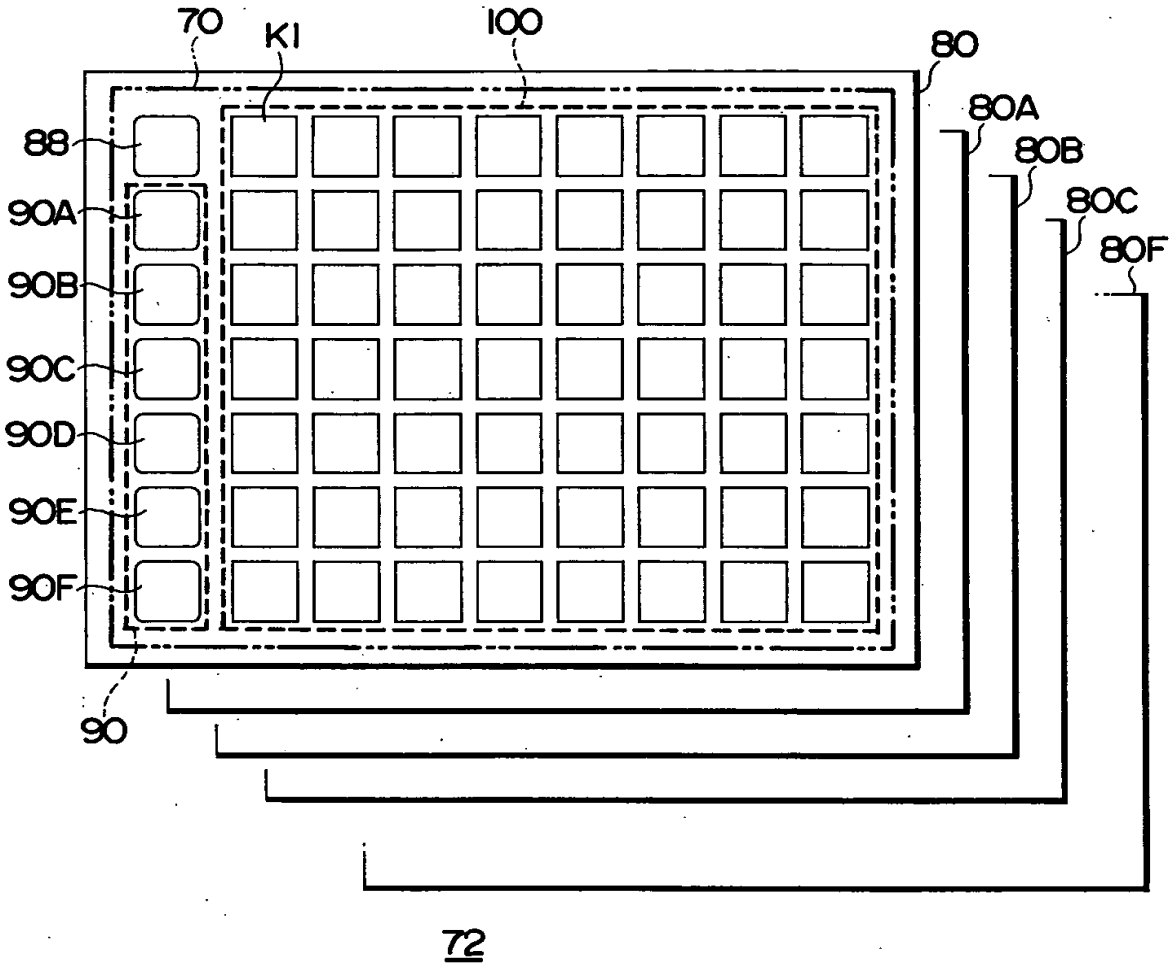


FIG. 6

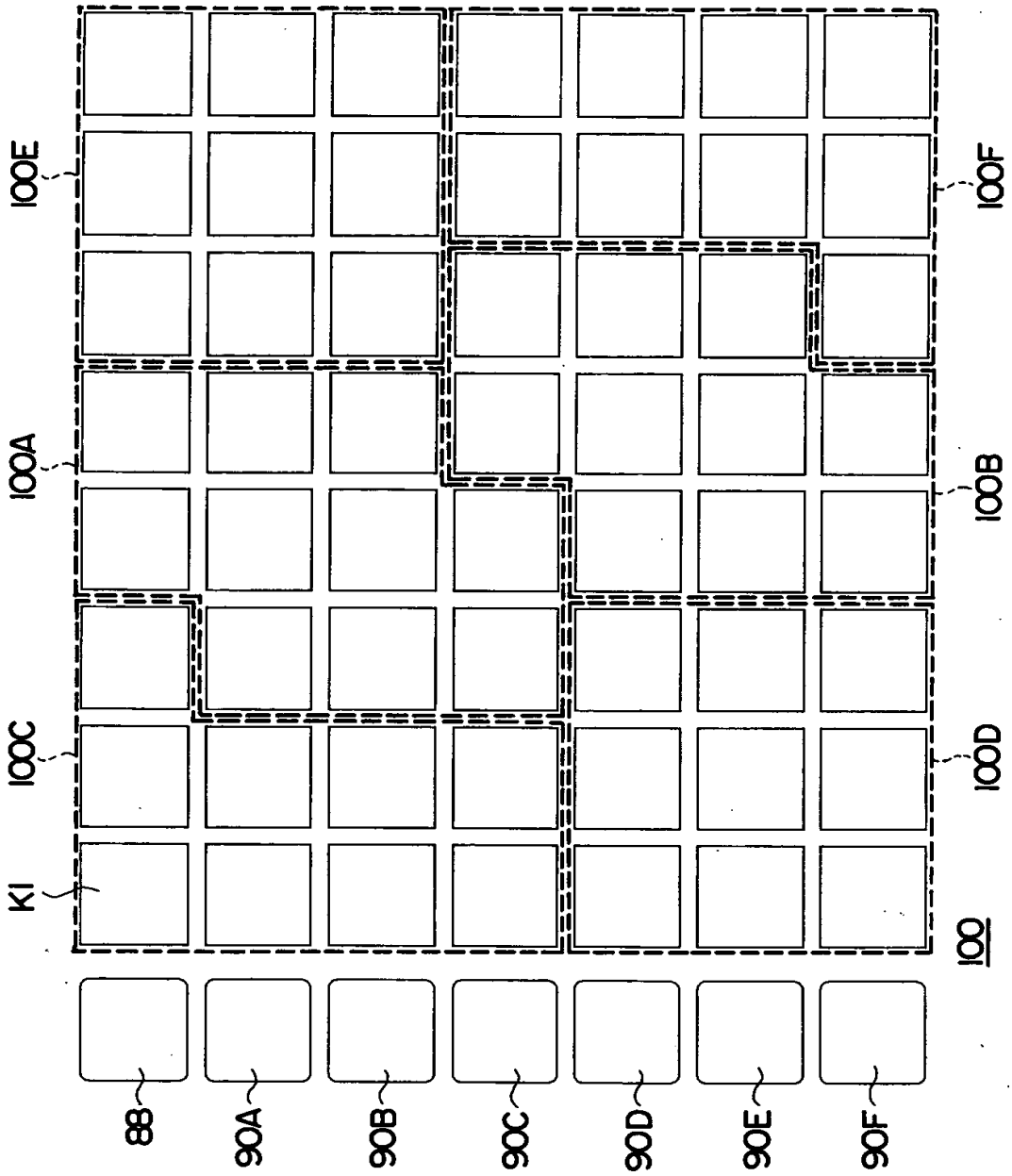


FIG. 7

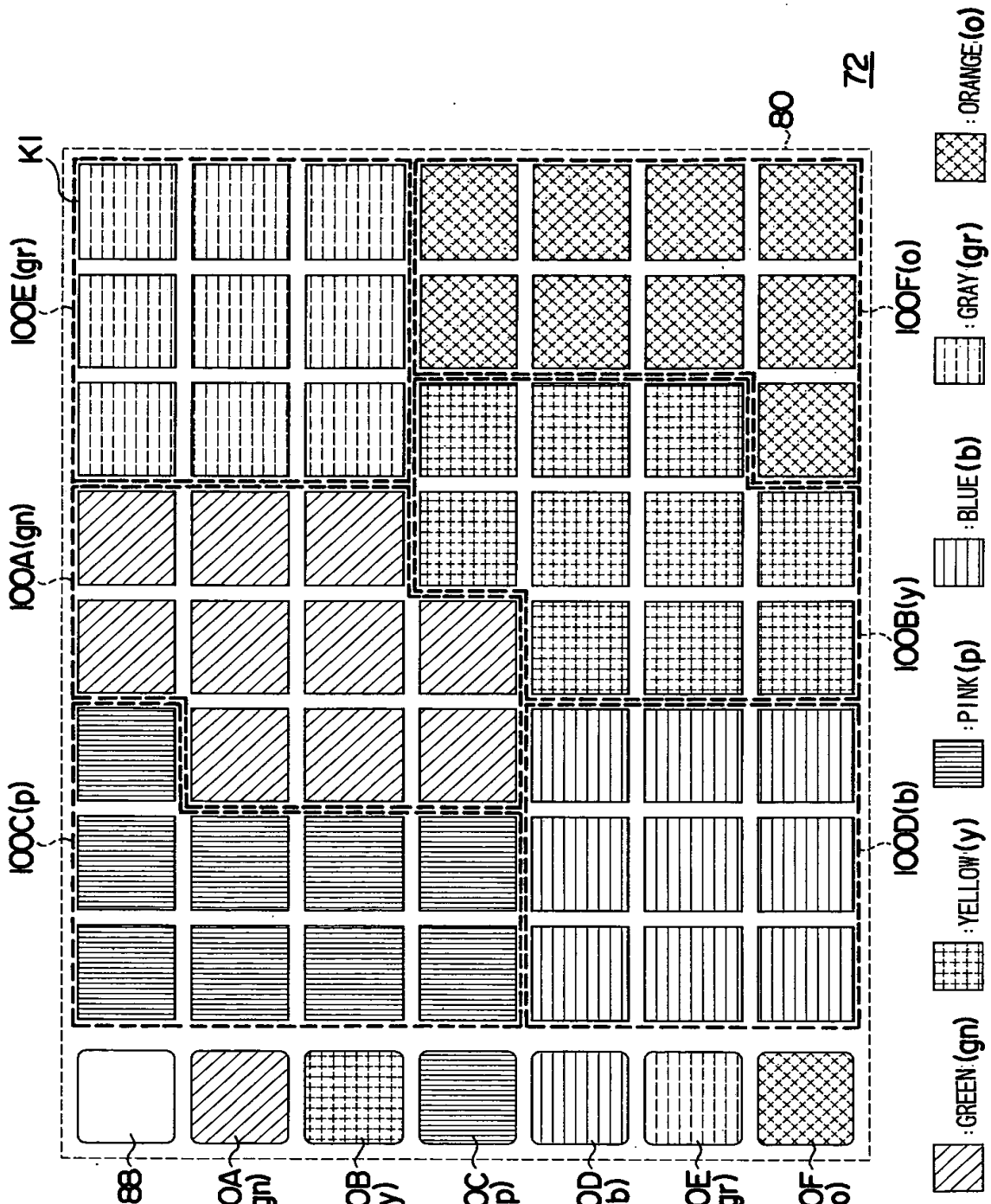

72
80
K1
100E(gr)
100A(gn)
100C(p)
100F(o)
100B(y)
100D(b)
88
90A (gn)
90B (y)
90C (p)
90D (b)
90E (gr)
90F (o)
: GREEN (gn)
: YELLOW (y)
: PINK (p)
: BLUE (b)
: GRAY (gr)
: ORANGE (o)

FIG. 8

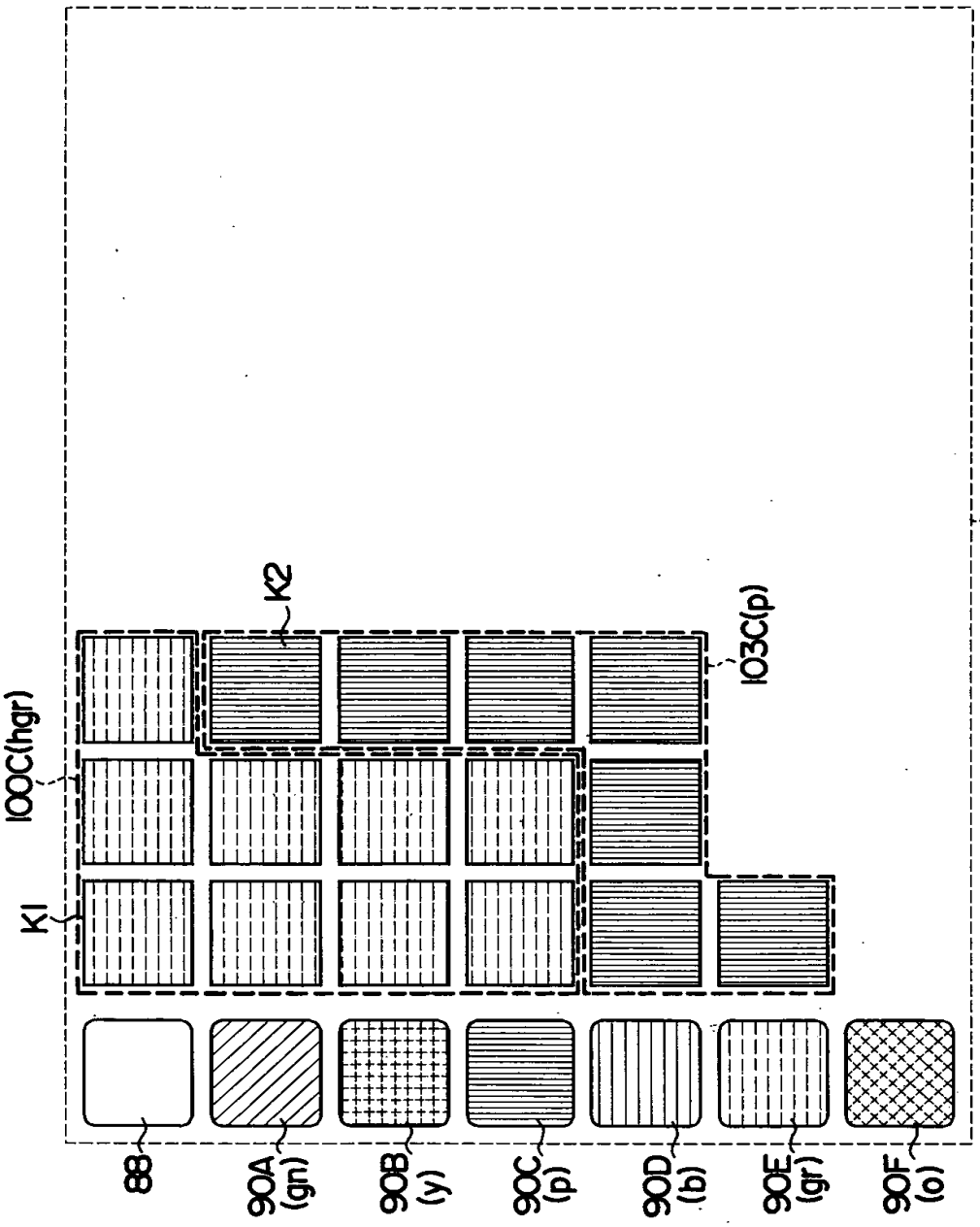


FIG. 9

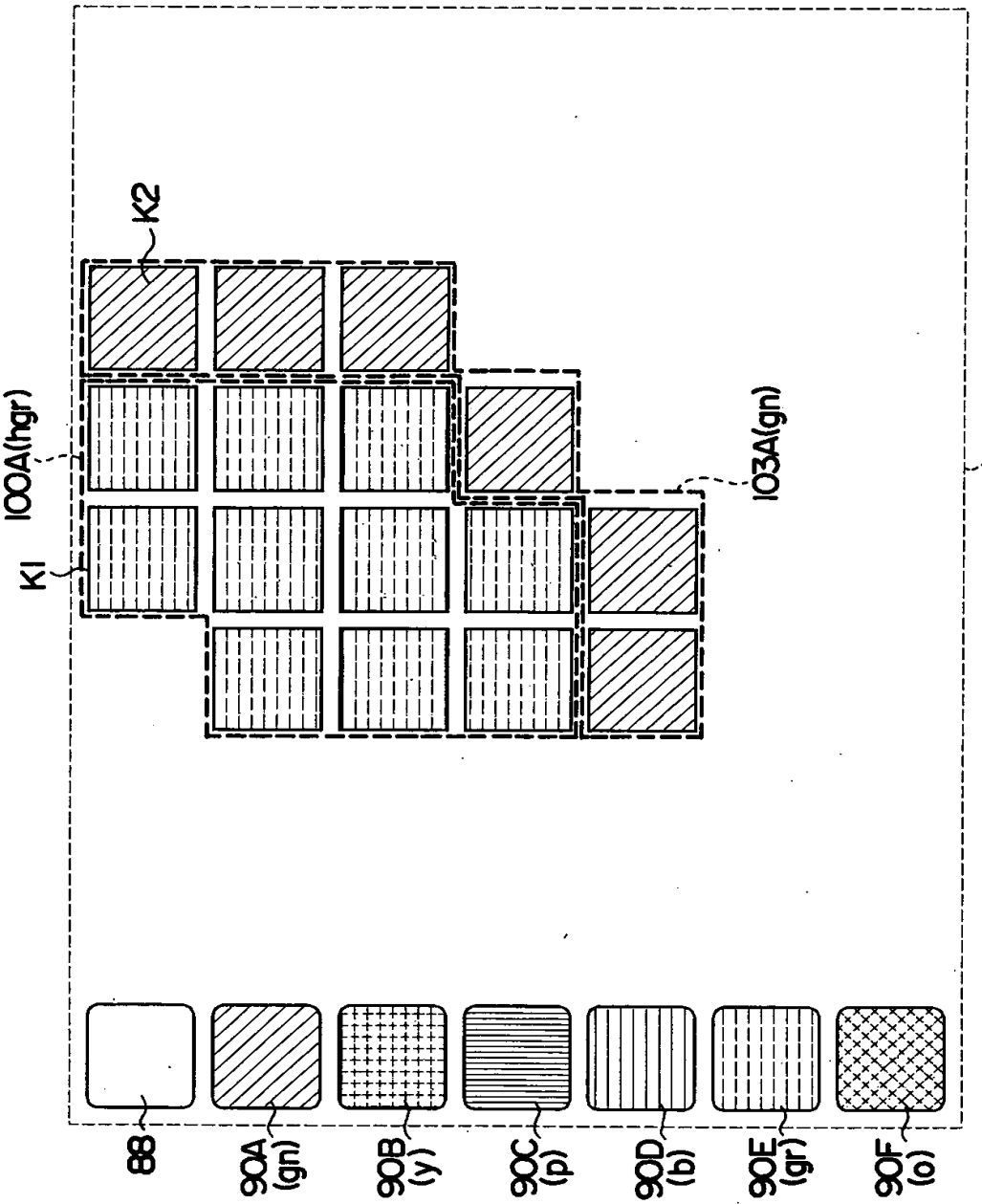

K2
100A(hgr)
K1
103A(gn)
80A
72
88
90A (gn)
90B (y)
90C (p)
90D (b)
90E (gr)
90F (o)

FIG. 10

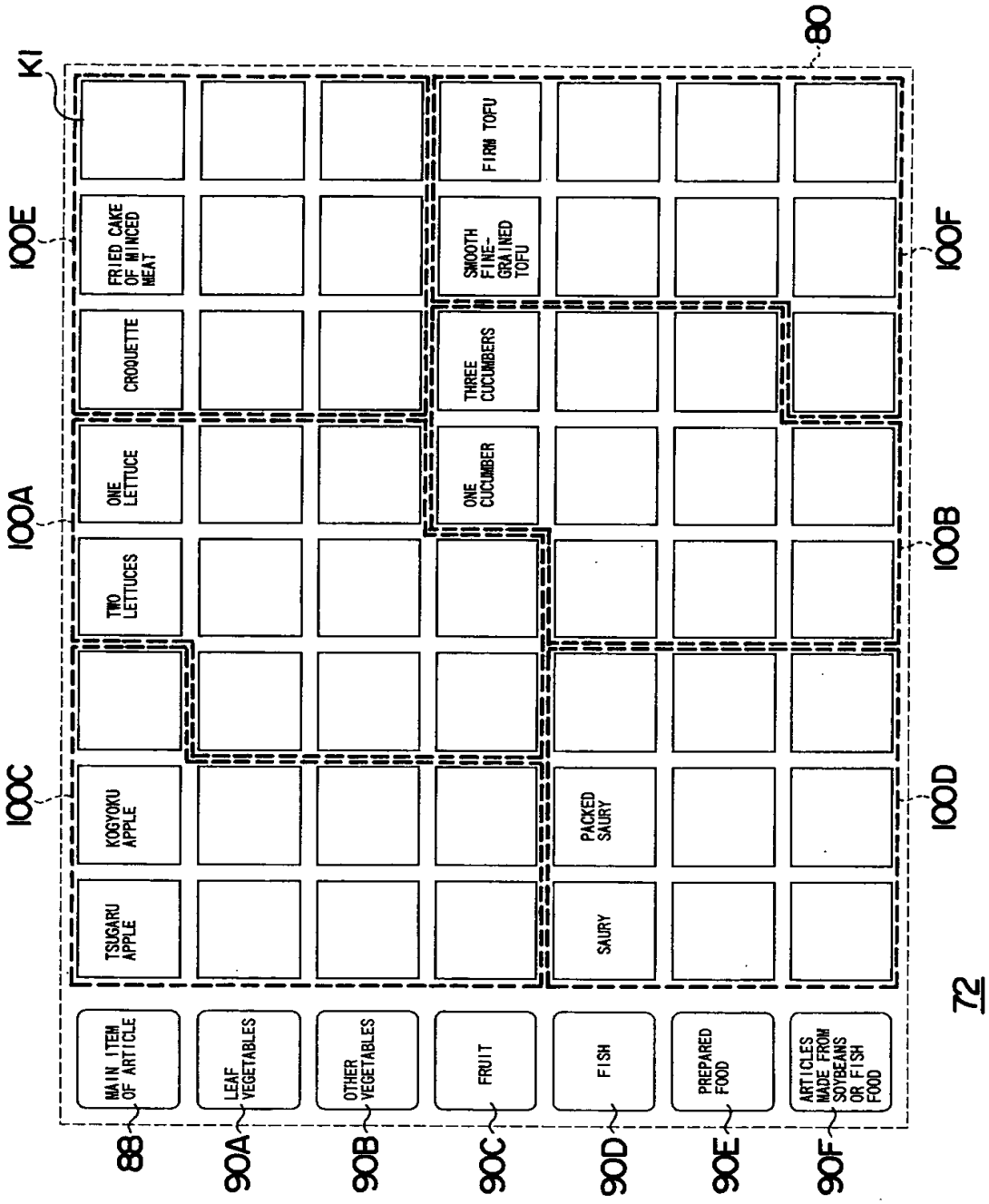

72
80
K1
100A
100B
100C
100D
100E
100F
MAIN ITEM OF ARTICLE
LEAF VEGETABLES
OTHER VEGETABLES
FRUIT
FISH
PREPARED FOOD
ARTICLES MADE FROM SOYBEANS OR FISH FOOD
88
90A
90B
90C
90D
90E
90F
TSUGARU APPLE
KOGYOKU APPLE
TWO LETTUCES
ONE LETTUCE
CROQUETTE
FRIED CAKE OF MINCED MEAT
SAURY
PACKED SAURY
ONE CUCUMBER
THREE CUCUMBERS
SMOOTH FINE-GRAINED TOFU
FIRM TOFU

FIG. 11

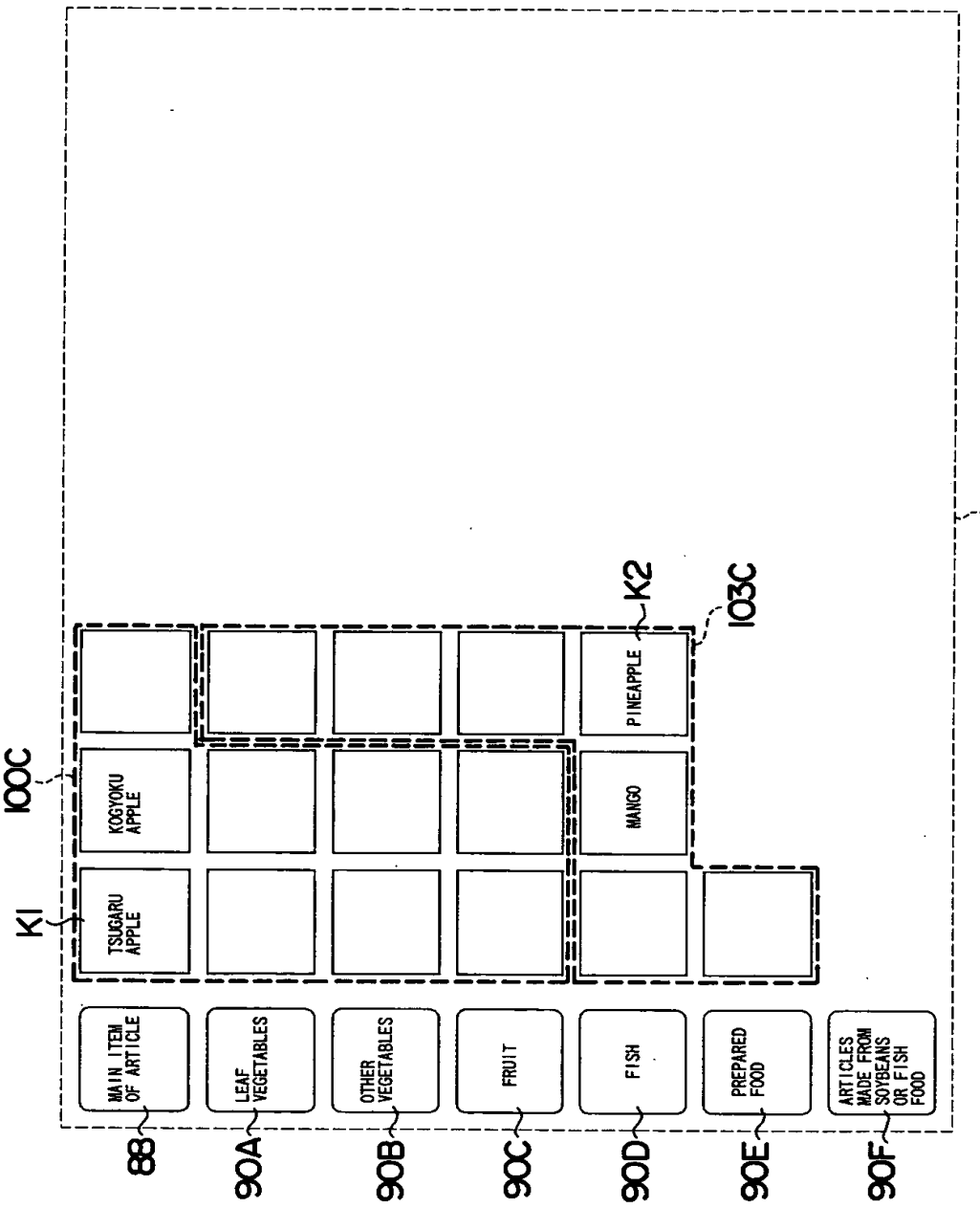

MAIN ITEM OF ARTICLE
LEAF VEGETABLES
OTHER VEGETABLES
FRUIT
FISH
PREPARED FOOD
ARTICLES MADE FROM SOYBEANS OR FISH FOOD
TSUGARU APPLE
KOGYOKU APPLE
MANGO
PINEAPPLE
88
90A
90B
90C
90D
90E
90F
K1
K2
100C
103C
80C
72

FIG. 12

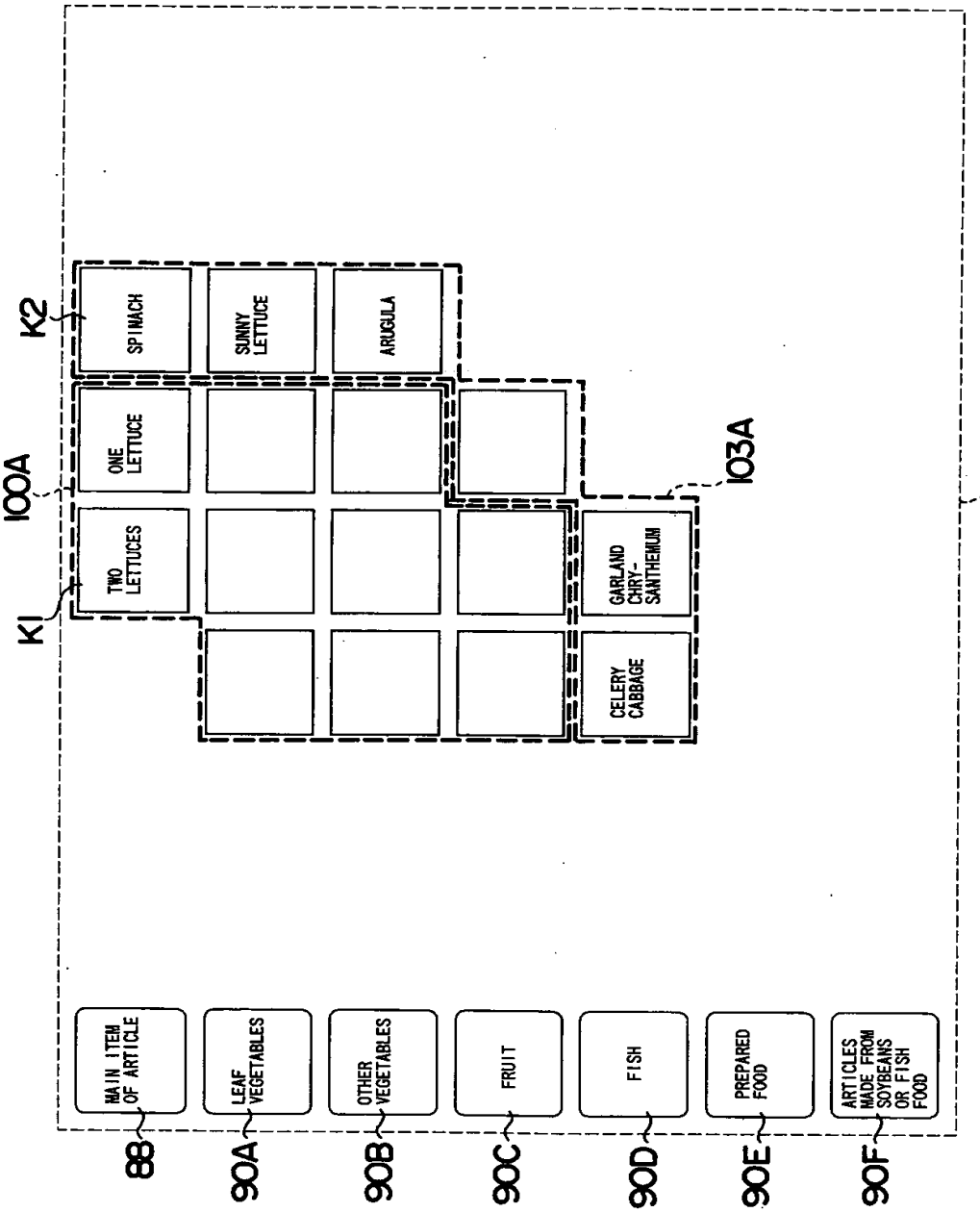

72
80A
88
90A
90B
90C
90D
90E
90F
MAIN ITEM OF ARTICLE
LEAF VEGETABLES
OTHER VEGETABLES
FRUIT
FISH
PREPARED FOOD
ARTICLES MADE FROM SOYBEANS OR FISH FOOD
K1
K2
100A
103A
TWO LETTUCES
ONE LETTUCE
SPINACH
SUNNY LETTUCE
ARUGULA
GARLAND CHRY-SANTHEMUM
CELERY CABBAGE

FIG. 13

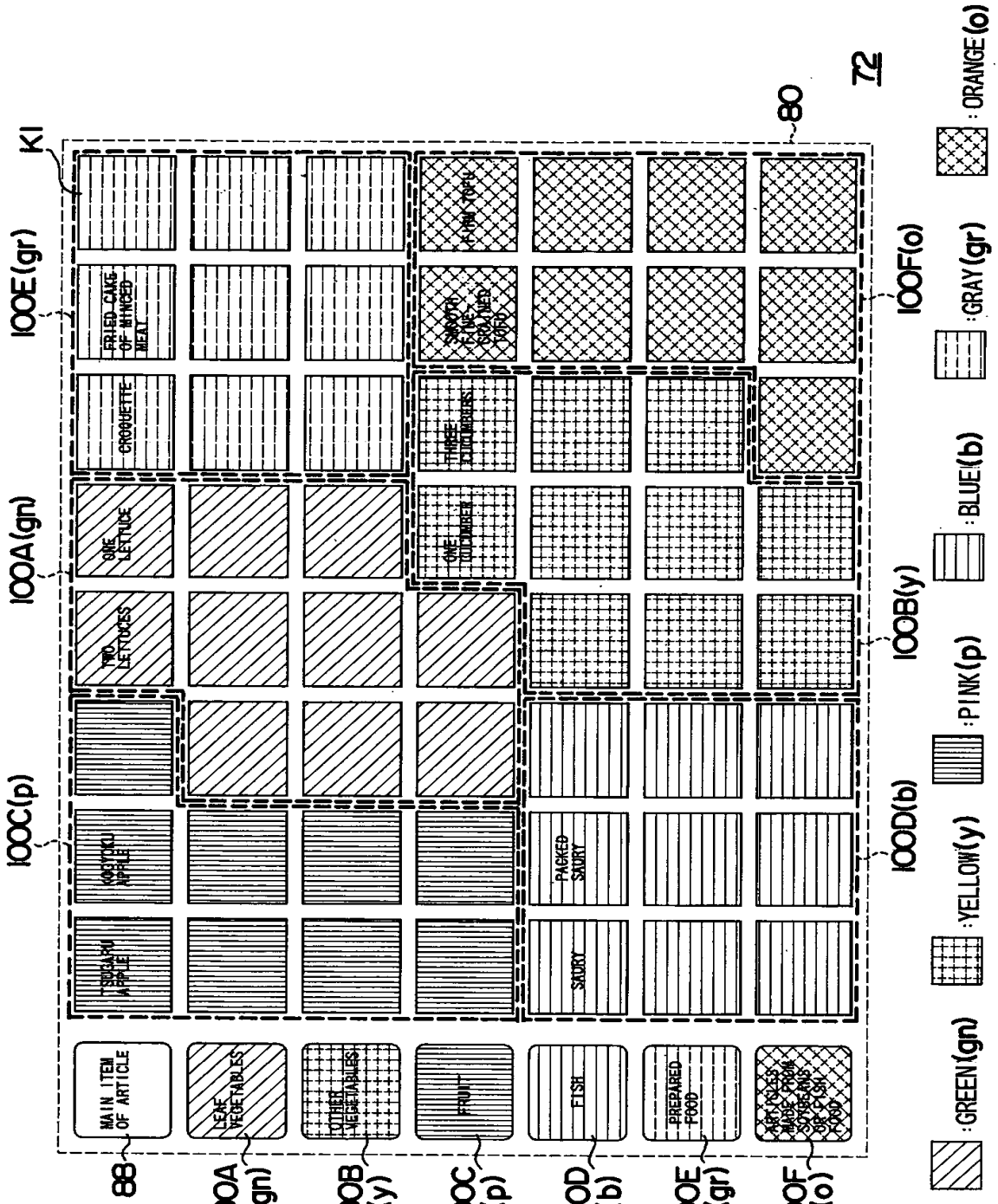

K1
80
72
100E(gr)
100A(gn)
100C(p)
100F(o)
100B(y)
100D(b)
FRIED CAKE OF MINCED MEAT
CROQUETTE
ONE LETTUCE
TWO LETTUCES
KOKUTOKU APPLE
TOKUSAN APPLE
THREE TOMATOES
ONE CUCUMBER
PACKED SAURY
SAURY
MAIN ITEM OF ARTICLE
LEAF VEGETABLES
OTHER VEGETABLES
FRUIT
FISH
PREPARED FOOD
ART. FOODS MADE FROM SOYBEANS OR FISH FOOD
88
90A (gn)
90B (y)
90C (p)
90D (b)
90E (gr)
90F (o)
:GREEN(gn)
:YELLOW(y)
:PINK(p)
:BLUE(b)
:GRAY(gr)
:ORANGE(o)

FIG. 14

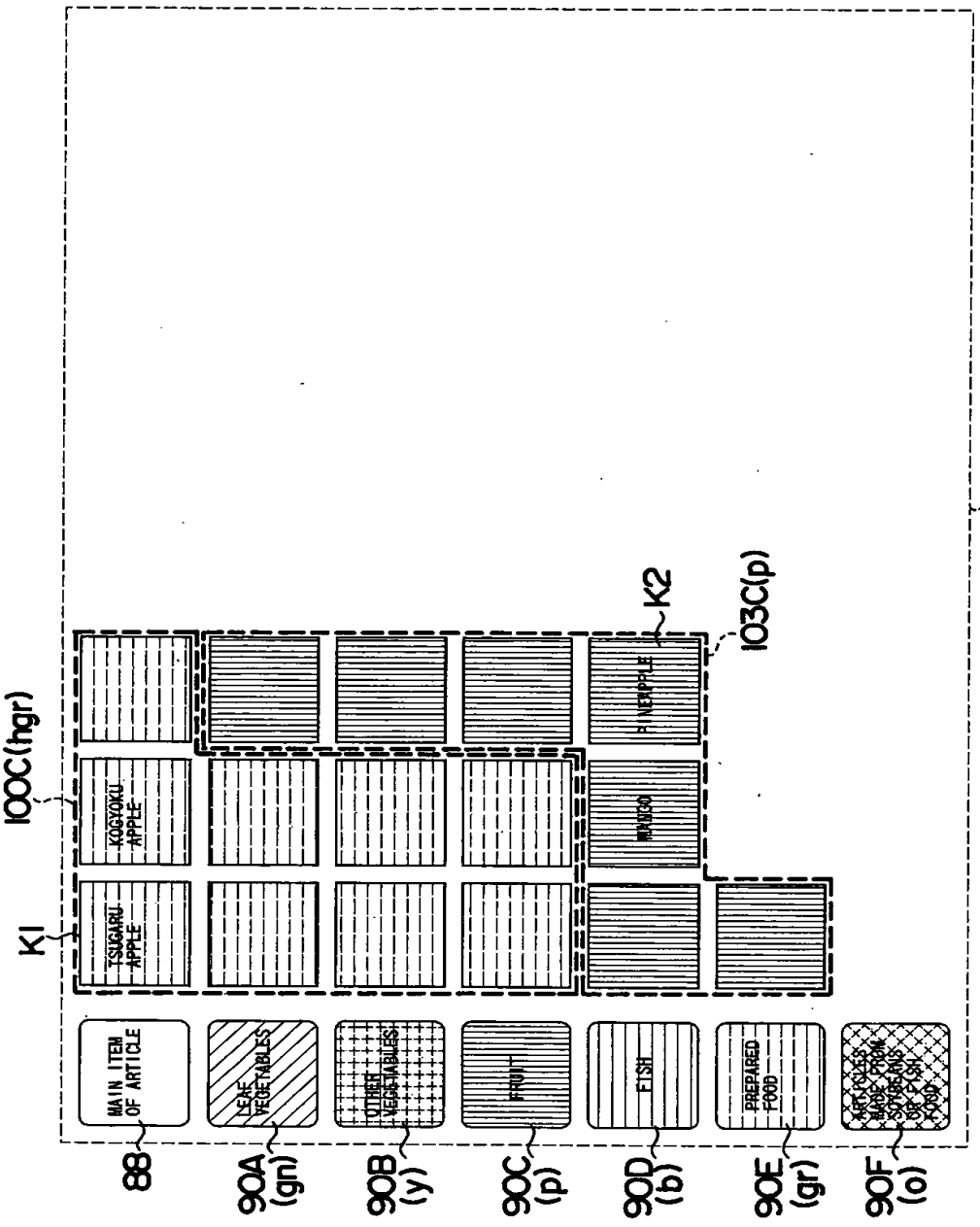

80C
72
100C(hgr)
K1
K2
103C(p)
TSUGARU APPLE
KOGYOKU APPLE
P. NERPPLE
MANGO
MAIN ITEM OF ARTICLE
LEAF VEGETABLES
OTHER VEGETABLES
FRUIT
FISH
PREPARED FOOD
ARTICLES MADE FROM MARINE PRODUCTS OR FISH FOOD
88
90A (gn)
90B (y)
90C (p)
90D (b)
90E (gr)
90F (o)

FIG. 15

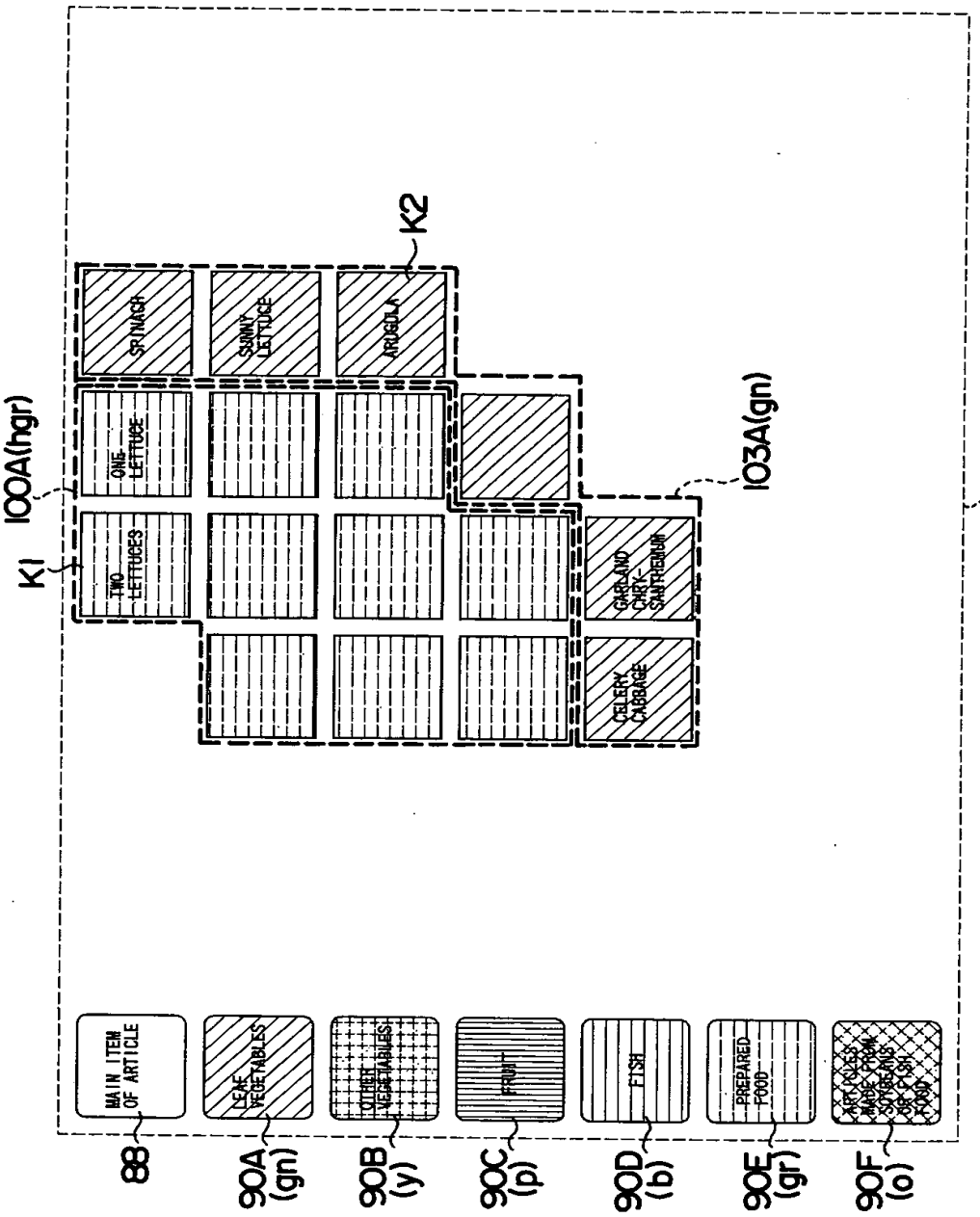

K2
SPINACH
SUNNY LETTUCE
ARUGULA
K1
100A(hgr)
ONE LETTUCE
TWO LETTUCE3
103A(gn)
GARLAND CHRY-SANTHEMUM
CELERY CABBAGE
80A
72
MAIN ITEM OF ARTICLE
LEAF VEGETABLES
OTHER VEGETABLES
FRUIT
FISH
PREPARED FOOD
ARTICLES MADE FROM SOYBEANS OR FISH FOOD
88
90A (gn)
90B (y)
90C (p)
90D (b)
90E (gr)
90F (o)

FIG. 16

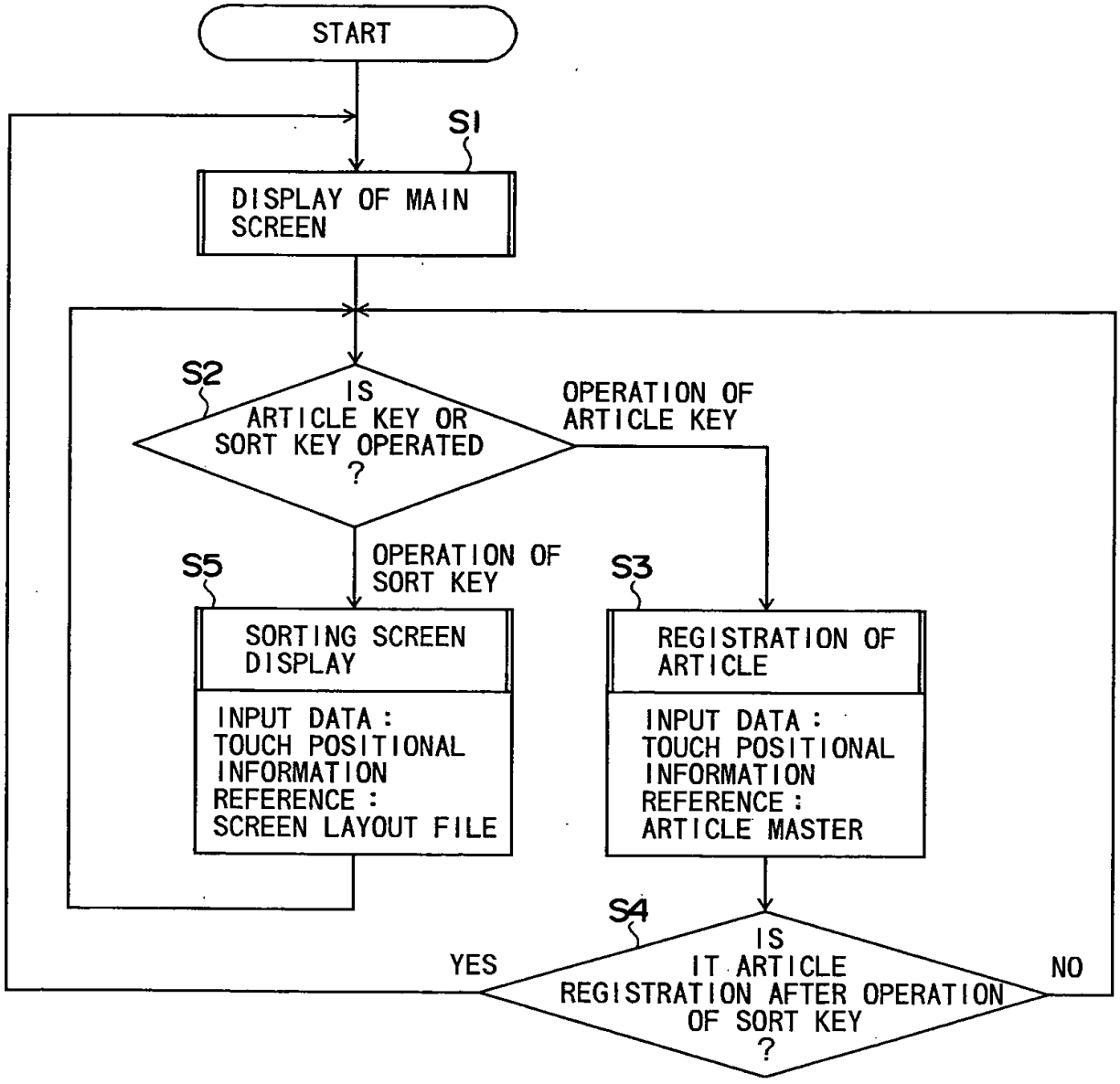

START
S1
DISPLAY OF MAIN SCREEN
S2
IS ARTICLE KEY OR SORT KEY OPERATED ?
OPERATION OF ARTICLE KEY
OPERATION OF SORT KEY
S5
SORTING SCREEN DISPLAY
INPUT DATA : TOUCH POSITIONAL INFORMATION
REFERENCE : SCREEN LAYOUT FILE
S3
REGISTRATION OF ARTICLE
INPUT DATA : TOUCH POSITIONAL INFORMATION
REFERENCE : ARTICLE MASTER
S4
IS IT ARTICLE REGISTRATION AFTER OPERATION OF SORT KEY ?
YES
NO

FIG. 17

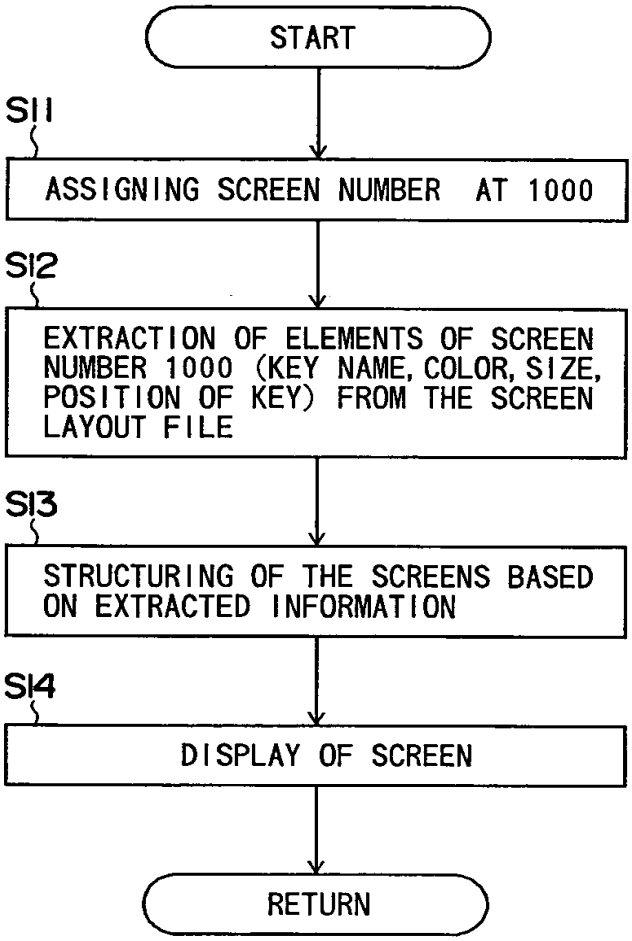

START
S11
ASSIGNING SCREEN NUMBER AT 1000
S12
EXTRACTION OF ELEMENTS OF SCREEN NUMBER 1000 (KEY NAME, COLOR, SIZE, POSITION OF KEY) FROM THE SCREEN LAYOUT FILE
S13
STRUCTURING OF THE SCREENS BASED ON EXTRACTED INFORMATION
S14
DISPLAY OF SCREEN
RETURN

FIG. 18

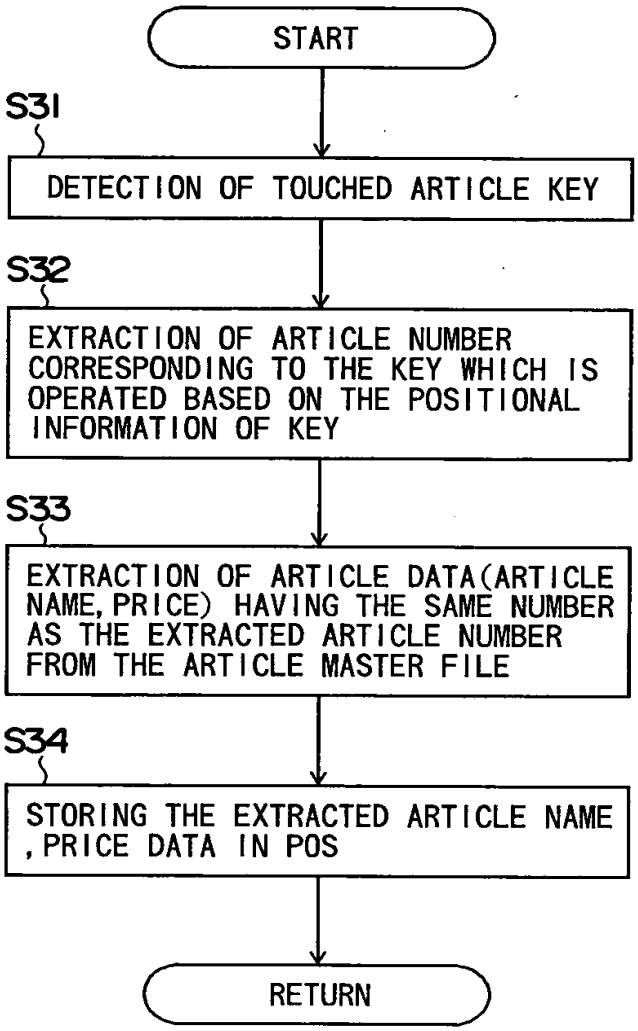

START
S31
DETECTION OF TOUCHED ARTICLE KEY
S32
EXTRACTION OF ARTICLE NUMBER CORRESPONDING TO THE KEY WHICH IS OPERATED BASED ON THE POSITIONAL INFORMATION OF KEY
S33
EXTRACTION OF ARTICLE DATA(ARTICLE NAME, PRICE) HAVING THE SAME NUMBER AS THE EXTRACTED ARTICLE NUMBER FROM THE ARTICLE MASTER FILE
S34
STORING THE EXTRACTED ARTICLE NAME , PRICE DATA IN POS
RETURN

FIG. 19

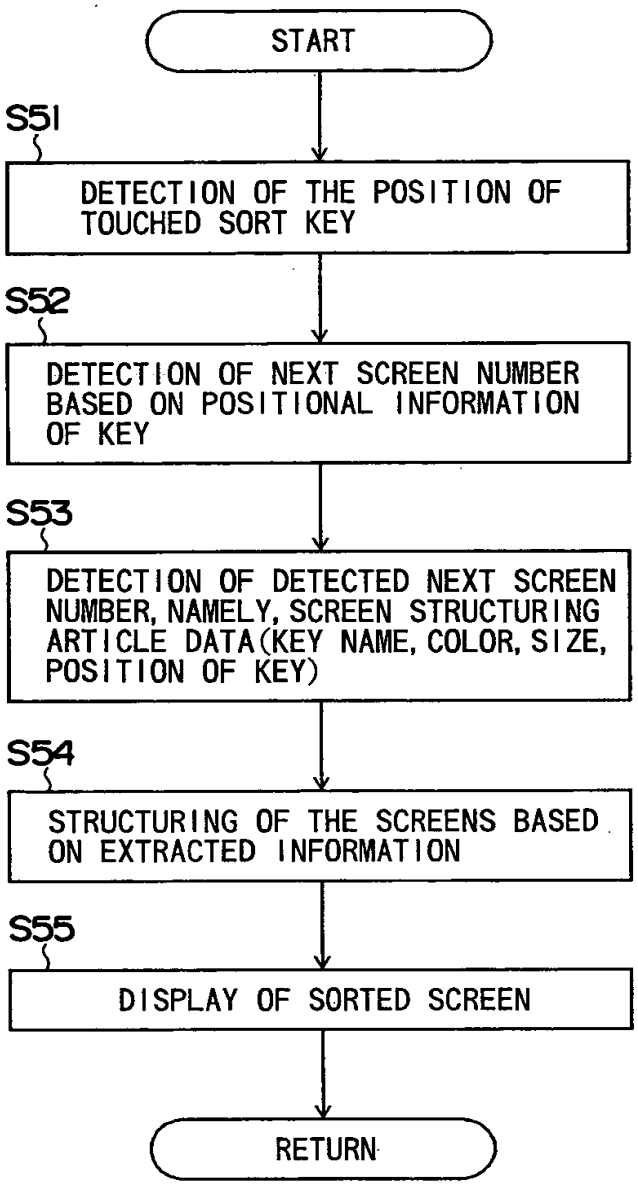

START
S51
DETECTION OF THE POSITION OF TOUCHED SORT KEY
S52
DETECTION OF NEXT SCREEN NUMBER BASED ON POSITIONAL INFORMATION OF KEY
S53
DETECTION OF DETECTED NEXT SCREEN NUMBER, NAMELY, SCREEN STRUCTURING ARTICLE DATA(KEY NAME, COLOR, SIZE, POSITION OF KEY)
S54
STRUCTURING OF THE SCREENS BASED ON EXTRACTED INFORMATION
S55
DISPLAY OF SORTED SCREEN
RETURN

FIG. 20

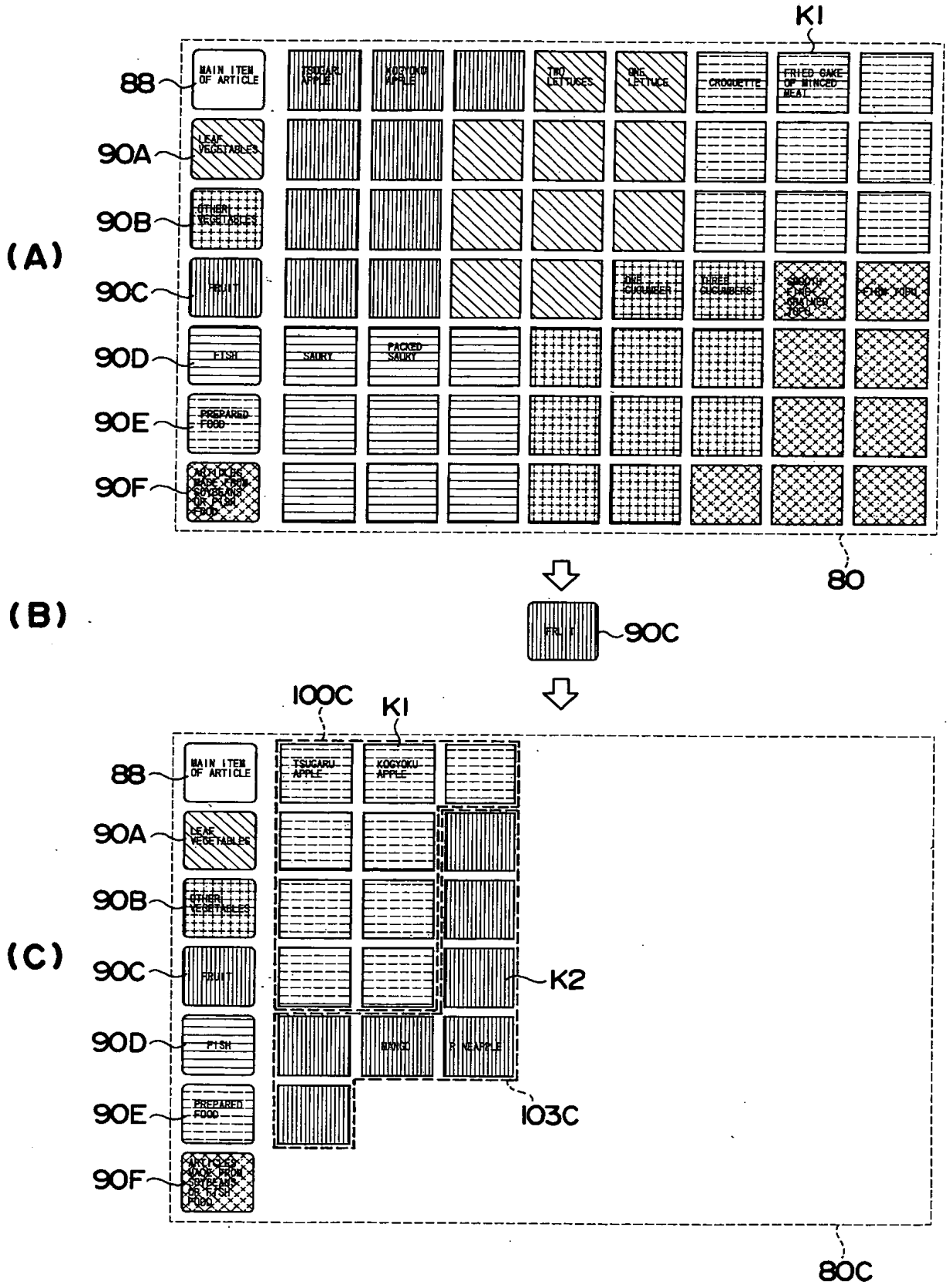

(A)
K1
88
90A
90B
90C
90D
90E
90F
MAIN ITEM OF ARTICLE
LEAF VEGETABLES
OTHER VEGETABLES
FRUIT
FISH
PREPARED FOOD
ARTICLES MADE FROM SOYBEANS OR PORK FOOD
TSUGARU APPLE
KOGYOKU APPLE
TWO LETTUCES
BIG LETTUCE
CROQUETTE
FRIED CAKE OF MINCED MEAT
ONE CUCUMBER
THREE CUCUMBERS
SMOOTH FIRM SEASONED TOFU
FIRM TOFU
SAURY
PACKED SAURY
80
(B)
FRUIT
90C
(C)
100C
K1
88
90A
90B
90C
90D
90E
90F
MAIN ITEM OF ARTICLE
LEAF VEGETABLES
OTHER VEGETABLES
FRUIT
FISH
PREPARED FOOD
ARTICLES MADE FROM SOYBEANS OR FISH FOOD
TSUGARU APPLE
KOGYOKU APPLE
K2
MANGO
PINEAPPLE
103C
80C

FIG. 21

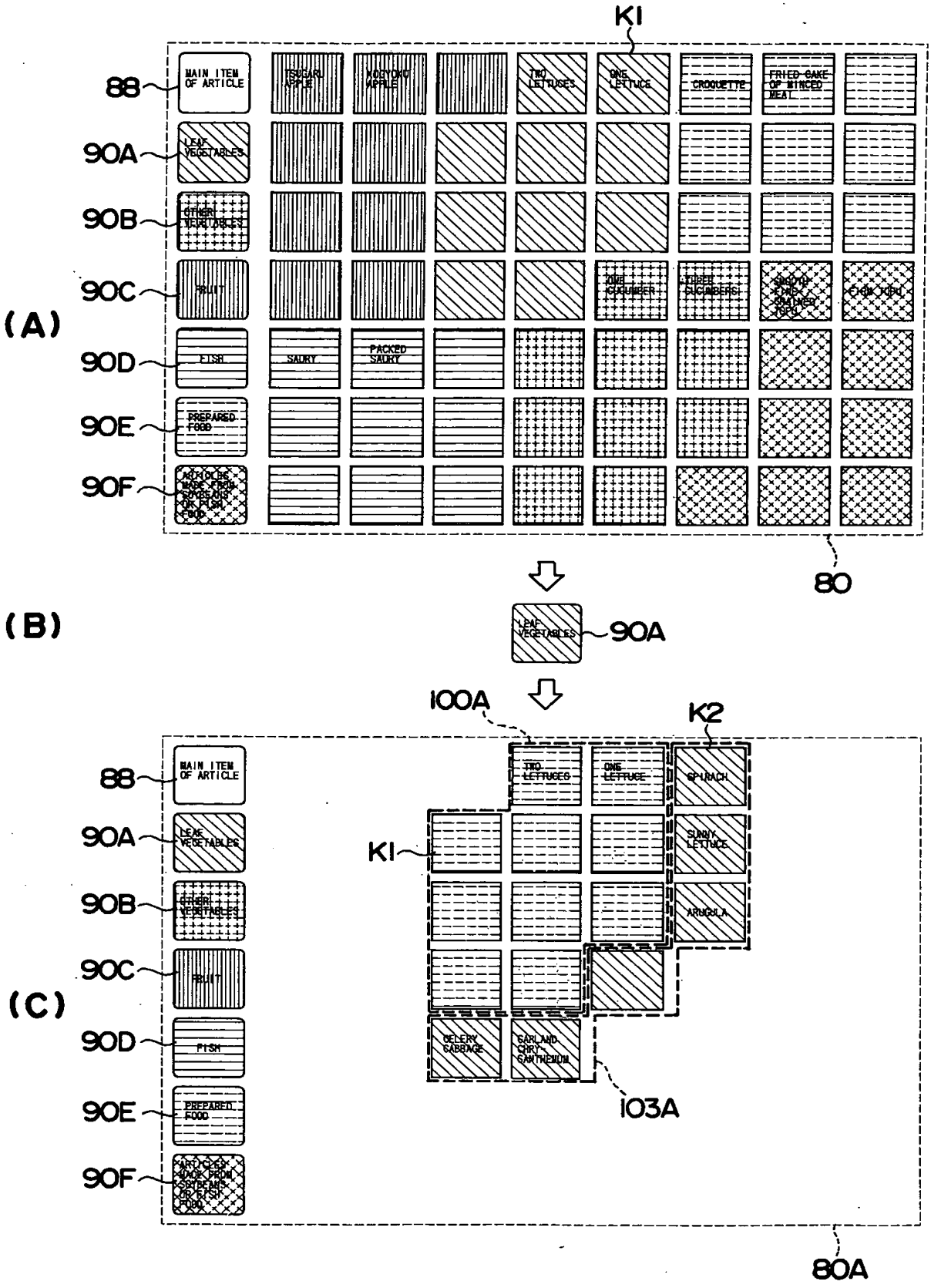

(A)
K1
88
90A
90B
90C
90D
90E
90F
MAIN ITEM OF ARTICLE
TSUGARU APPLE
KOGYOKU APPLE
TWO LETTUCES
ONE LETTUCE
CROQUETTE
FRIED CAKE OF MINCED MEAT
LEAF VEGETABLES
OTHER VEGETABLES
FRUIT
ONE CUCUMBER
THREE CUCUMBERS
SMOOTH KIND SEASONED TOFU
FISH
SAURY
PACKED SAURY
PREPARED FOOD
80
(B)
LEAF VEGETABLES
90A
100A
K2
(C)
TWO LETTUCES
ONE LETTUCE
SPINACH
K1
SUNNY LETTUCE
ARUGULA
CELERY CABBAGE
GARLAND CHRYSANTHEMUM
103A
80A

FIG. 22

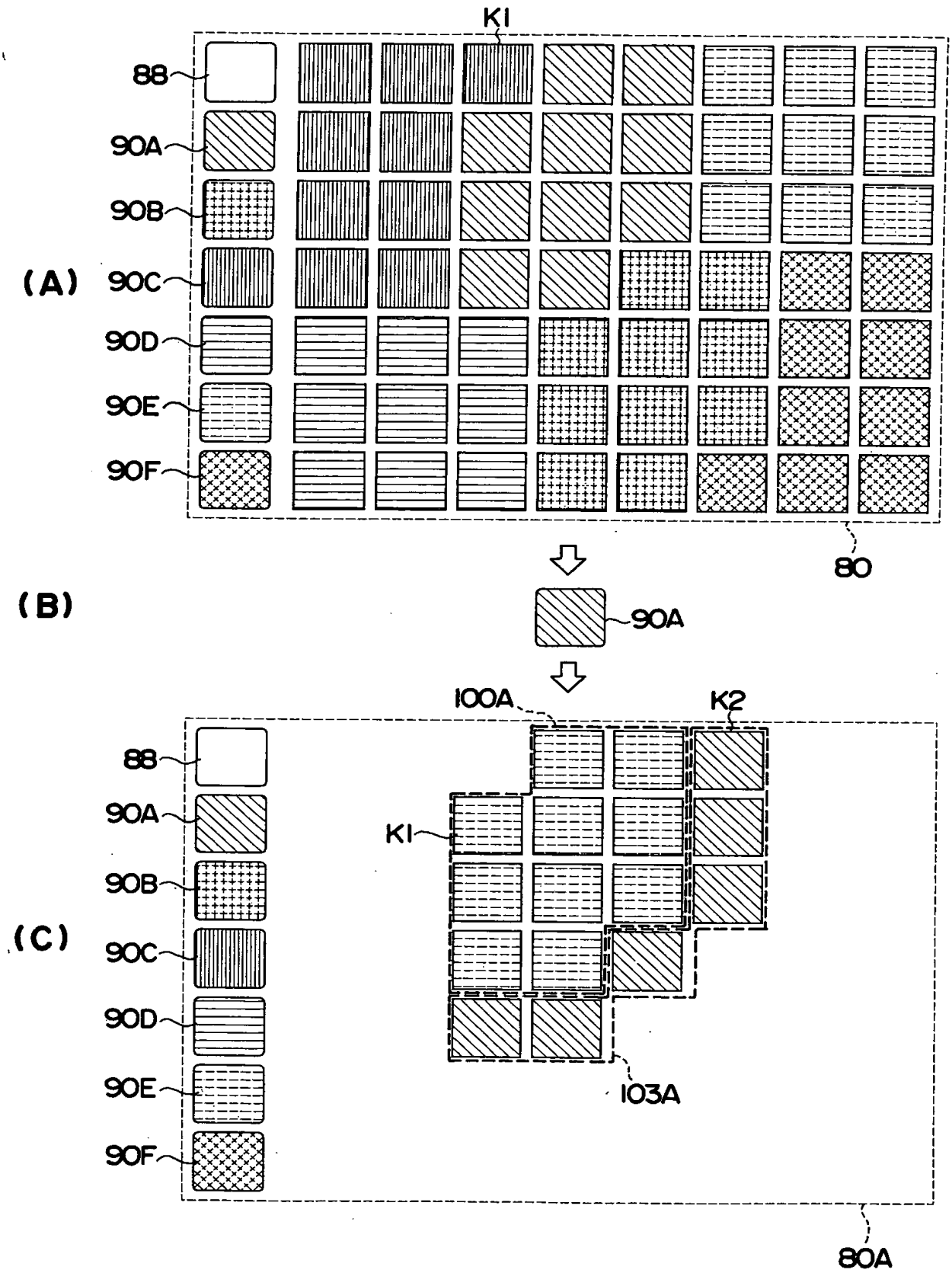
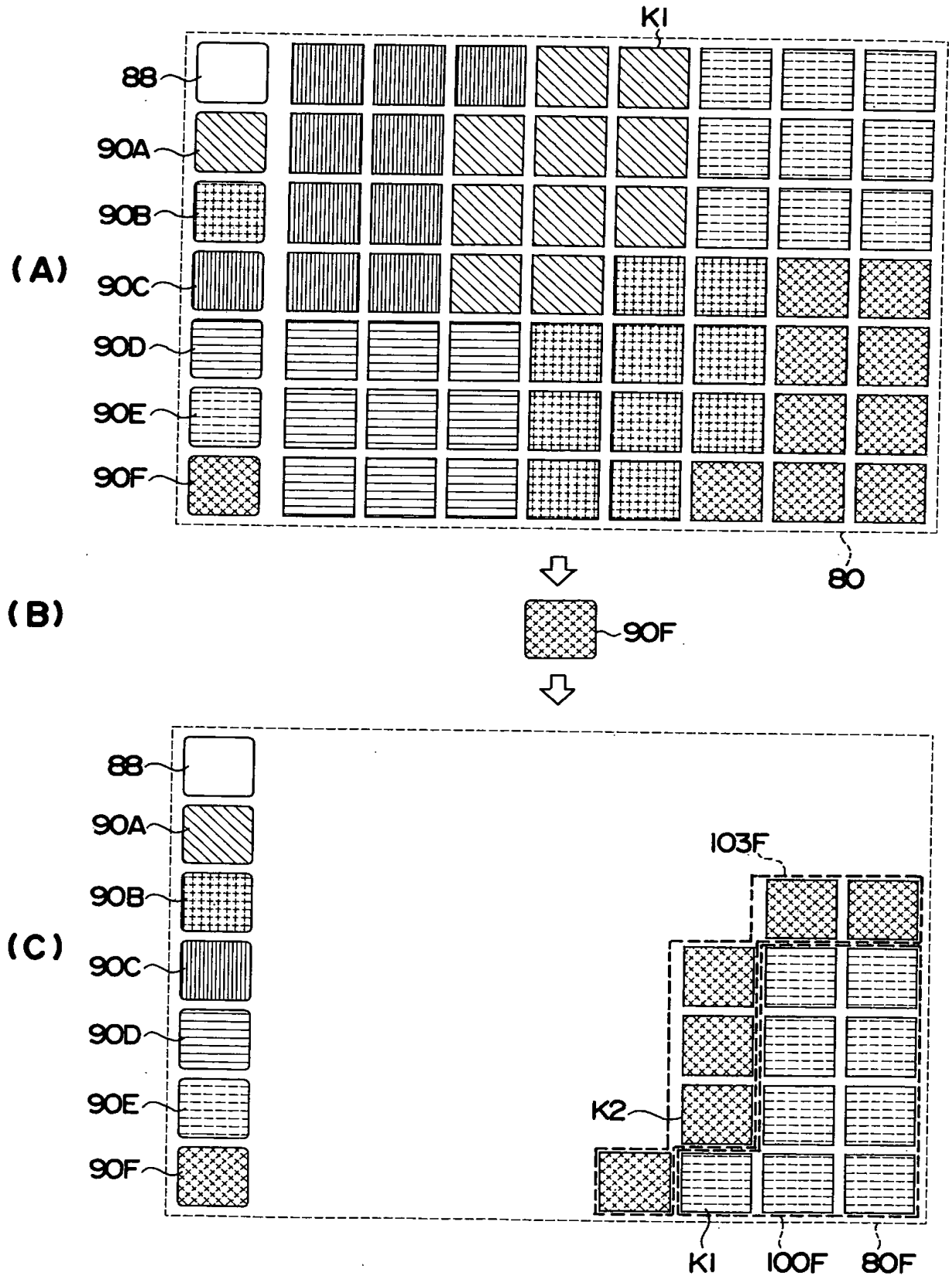

K1
88
90A
90B
(A)
90C
90D
90E
90F
80
(B)
90A
100A
K2
88
90A
K1
90B
(C)
90C
90D
90E
90F
103A
80A

FIG. 23


(A)
K1
88
90A
90B
90C
90D
90E
90F
80
(B)
90F
(C)
88
90A
90B
90C
90D
90E
90F
103F
K2
K1
100F
80F